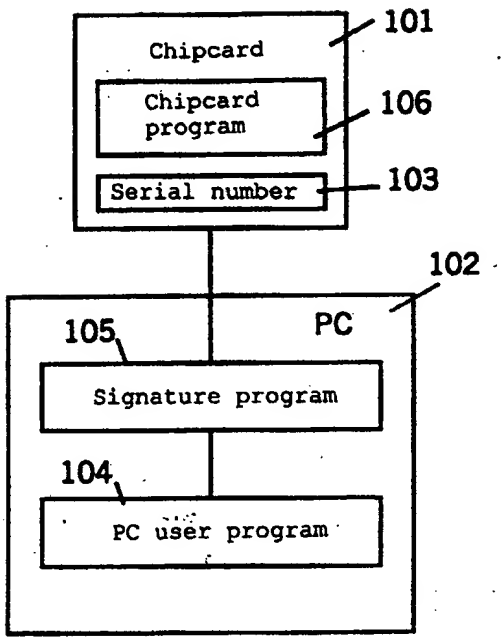

FIG. 1

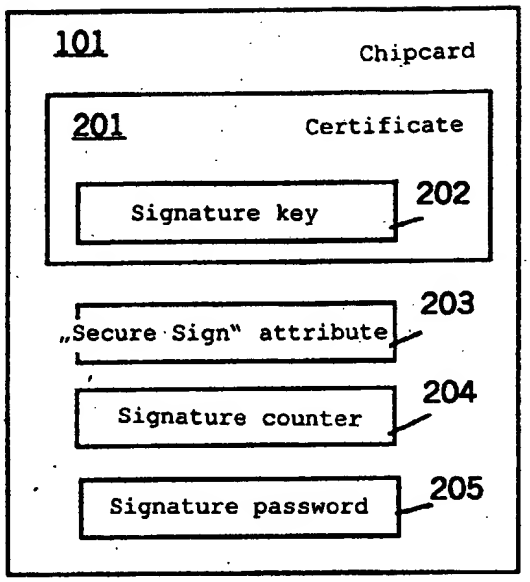

FIG. 2

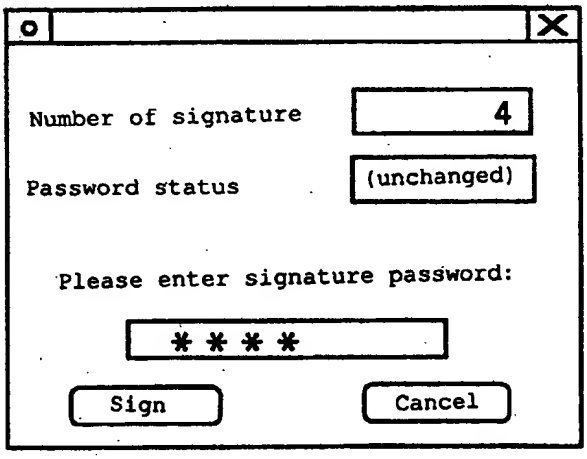

FIG. 4

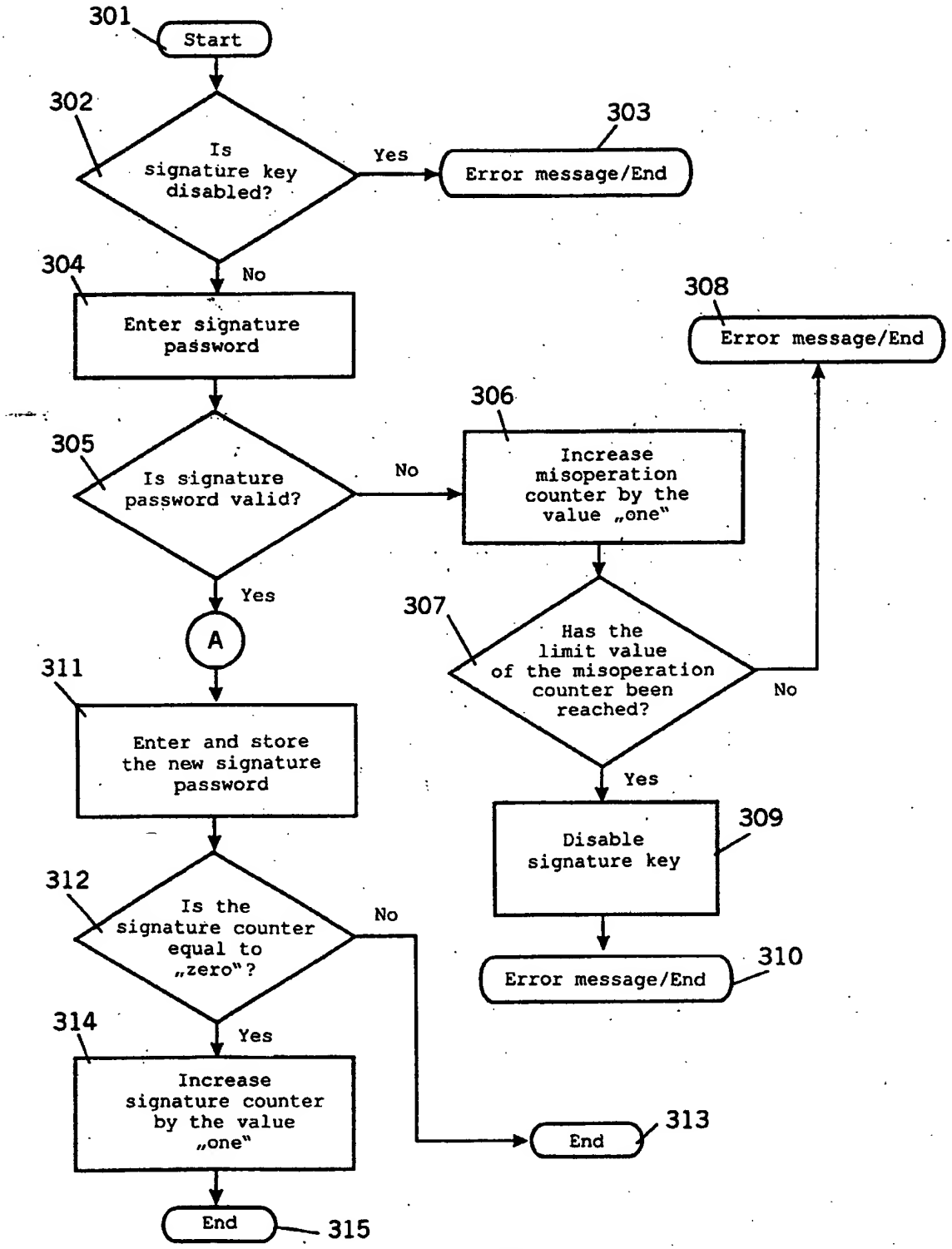
301
Start
302
Is signature key disabled?
Yes
303
Error message/End
No
304
Enter signature password
305
Is signature password valid?
No
306
Increase misoperation counter by the value „one"
307
Has the limit value of the misoperation counter been reached?
No
308
Error message/End
Yes
309
Disable signature key
310
Error message/End
Yes
A
311
Enter and store the new signature password
312
Is the signature counter equal to „zero"?
No
313
End
Yes
314
Increase signature counter by the value „one"
End
315

FIG. 3

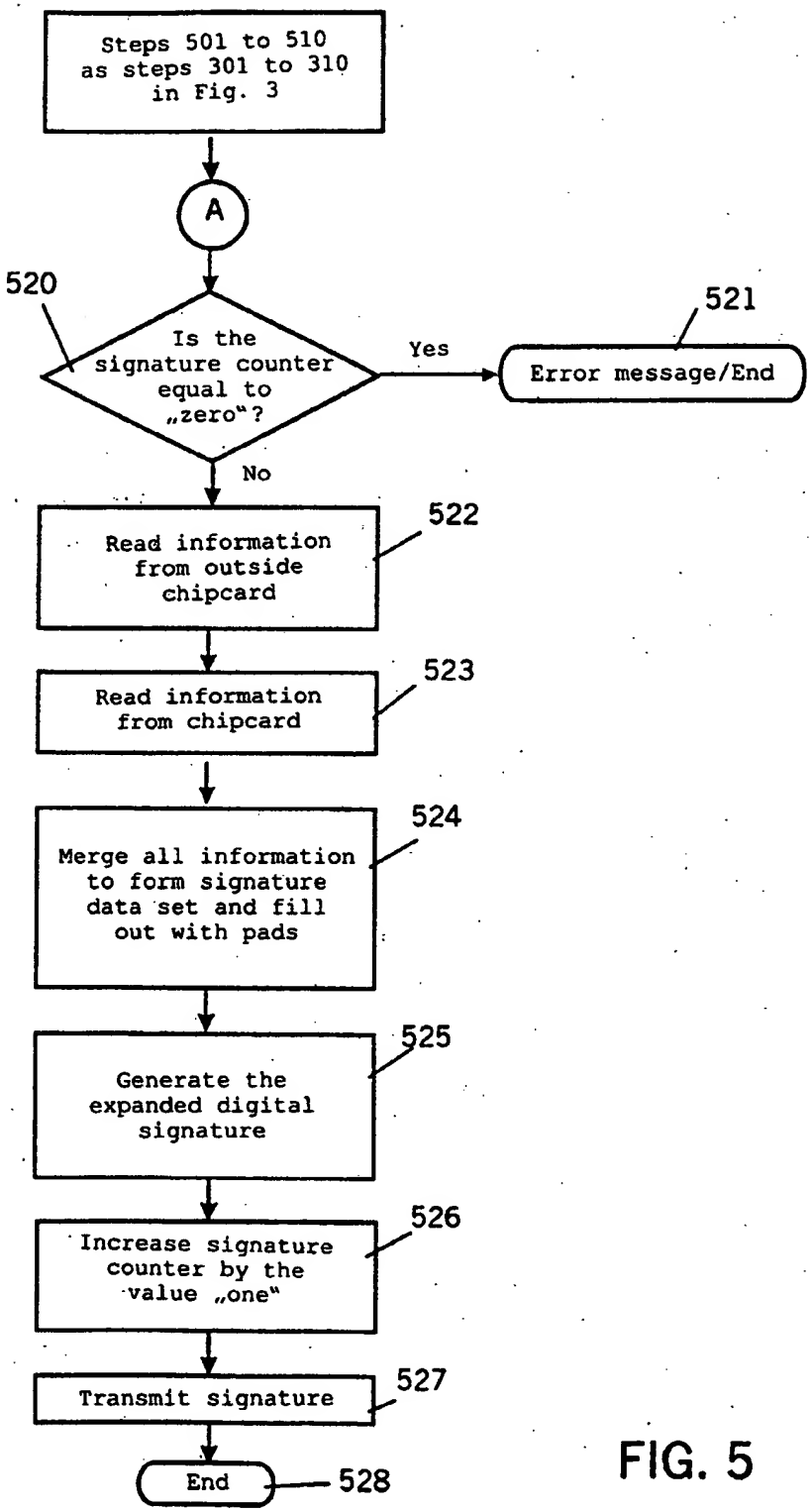
Steps 501 to 510 as steps 301 to 310 in Fig. 3
A
520
Is the signature counter equal to „zero"?
Yes
521
Error message/End
No
Read information from outside chipcard
522
Read information from chipcard
523
Merge all information to form signature data set and fill out with pads
524
Generate the expanded digital signature
525
Increase signature counter by the value „one"
526
Transmit signature
527
End
528

FIG. 5

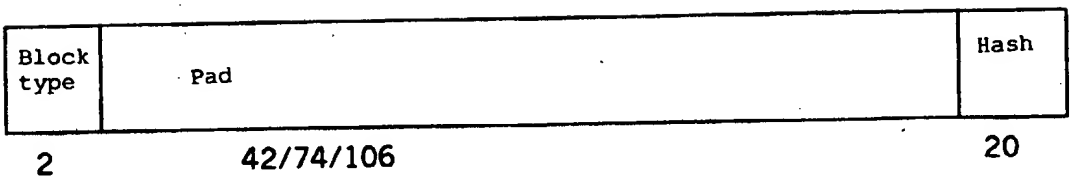
Block type
Pad
Hash
2
42/74/106
20

FIG. 6

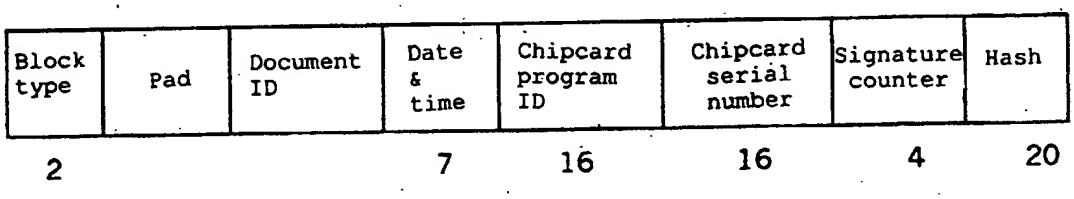
Block type
Pad
Document ID
Date & time
Chipcard program ID
Chipcard serial number
Signature counter
Hash
2
7
16
16
4
20

FIG. 7